

Detection Systems for Biological and Chemical Countermeasures (DSBCC)

(HSARPA RA 03-01)

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Today's Agenda

0830 – 0900 Keynote by Dr. Charles E. McQueary, Under Secretary for S&T, DHS

0900 - 0930 Keynote by Dr. David Bolka, Director, HSARPA

0930 – 1000 BREAK

➔ 1000 – 1030 Overview of Research Announcement (Dr. Keith Ward, PM HSARPA)

1030 - 1115 Technical Presentation: Biological Countermeasures TTA 1 and TTA 2 (Dr. Steve Buchsbaum, PM HSARPA)

1115 - 1200 Technical Presentation: Chemical Countermeasures TTA 3, TTA 4, TTA 5 (Dr. William Rees, PM HSARPA)

1200 – 1215 BREAK

1215 - 1230 Using the BIDS system to submit responses to this RA (Joyce Taylor, TSWG)

1230 - 1300 Funding R&D using “Other Transactions” (Diane Sidebottom, Office of General Counsel, HSARPA)

1300 – 1330 Questions and Answers



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Overview Outline

- Why We Need These Detector Systems
- Funding Mechanism
- A Phased Program
- Calling for White Papers
- Schedule
- Selection Criteria
- Teaming Website
- Submitting Questions



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Systems for Biological Countermeasures

Need for:

TTA-1: Bioagent Autonomous Networked Detectors (BAND)

- Monitor outdoor urban areas for bioaerosols
 - Continuously and autonomously
- To enable “detect to treat” response to attacks



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Systems for Biological Countermeasures

Need for:

TTA-2: Rapid Automated Biological Identification System (RABIS)

- Monitor inside buildings and selected outdoor locations with rapid reporting
 - Continuously and autonomously
- To enable “detect to protect” response to attacks



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Systems for Chemical Countermeasures

Need for:

TTA-3: Autonomous Rapid Facility Chemical Agent Monitor (ARFCAM)

- Monitor facilities for presence of TICs and CWAs
 - Continuously and autonomously
- Fast enough response to allow “detect to protect” reaction to attacks, limiting exposure to agents



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Systems for Chemical Countermeasures

Need for:

TTA-4: Lightweight Autonomous Chemical Identification System (LACIS)

- Responders need to quickly assess whether dangerous concentrations of TICs and CWAs are at the scene
 - Fully autonomous, hand portable
- Appropriate time response and dynamic range to determine if protective garments are required



Systems for Chemical Countermeasures

Need for:

TTA-5: Portable High-throughput Integrated Laboratory Identification System (PHILIS)

- High-throughput of samples from contaminated areas
- Rapidly field-deployable lab analysis system
- Determine the extent of area containing unsafe concentrations of TICs and CWAs



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DSBCC Spans HSARPA's Mission

RA-03-01 TTAs Span HSARPA's Mission:

Advanced Engineering to Meet Operational Requirements
(TTA-5) Through Extraordinarily Challenging Innovation to
Enable New Homeland Defenses (TTA-2)



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Other Transactions for Prototypes

A funding mechanism that:

- Enables the use of Teams that cut across organizational boundaries to achieve optimal mixes of technical talent and innovation
- Permits wide latitude in tailoring business, organizational, and technical relationships to achieve the program goals
- Allows the flexibility to use business and technical practices as desired
- Allows flexibility in contract terms and program execution

More details later today in Diane's presentation



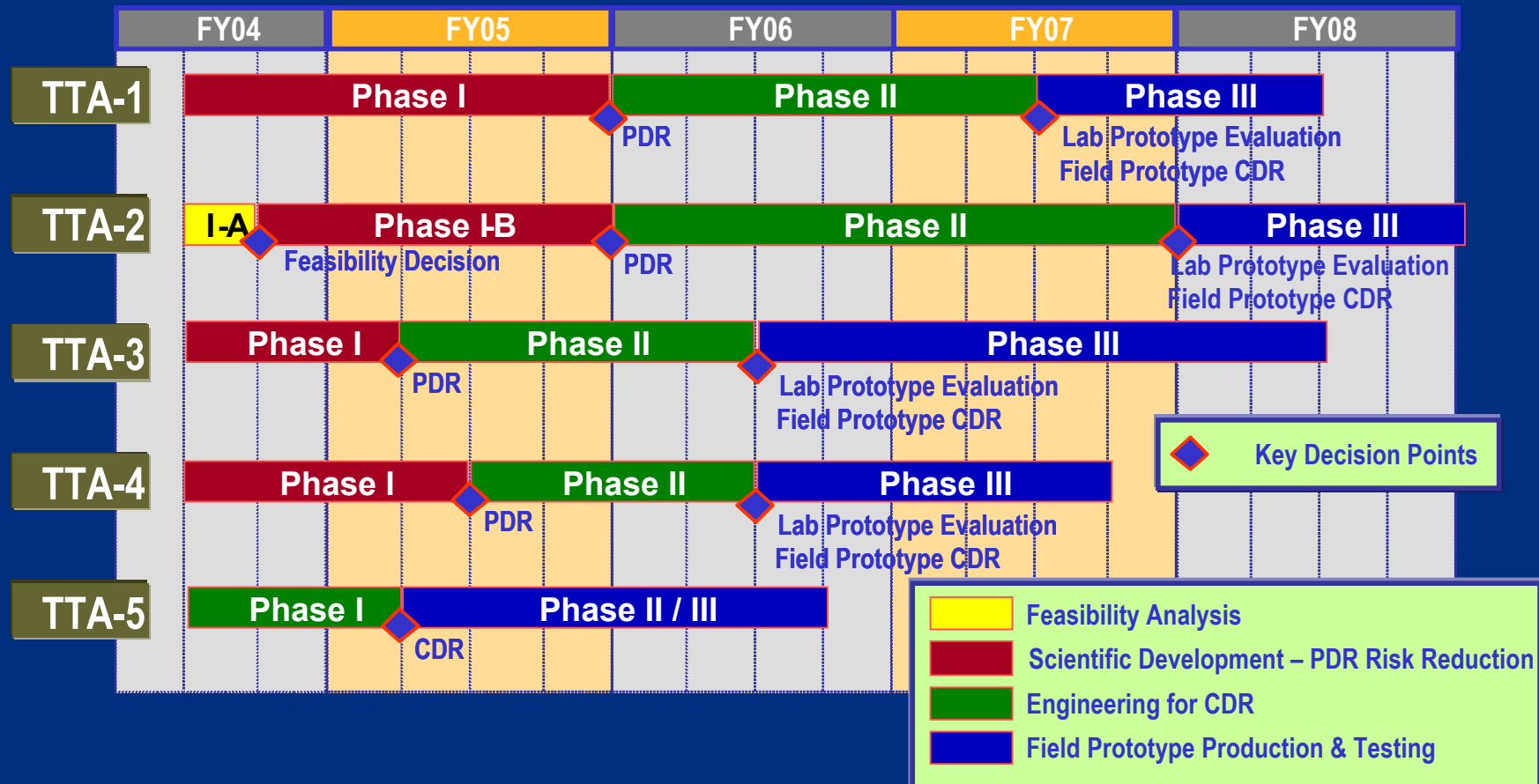
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Phased Development Program

- Phase 1 Concept Development Resulting in a Preliminary Design
- Phase 2 Prototype Development Resulting in a Laboratory Research Prototype, and Critical Design Review
- Phase 3 Build One or More Fieldable Prototypes for Use in a Pilot Demonstration



Phase Time Frames Differ for Each TTA



White Papers

Offerors are strongly encouraged, but not required, to submit white papers in advance of full proposals.

- Captures the essence of a proposal
- Permits offerors to obtain feedback from HSARPA on their planned approach
- Avoids having to go to the expense and effort of writing a complete proposal.

24 Oct 2003

White Papers due at 4:00pm (EST)



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Program Security

- The current solicitation is unclassified
- In the future, DHS may choose to protect, at a SECRET level, achieved system performance and selected system attributes
- Bidders must include a plan to handle SECRET level material by the beginning of Phase II



Solicitation Schedule

Submission Dates and Times

<u>Date</u>	<u>Event</u>
12 Sep 03	FedBizOpps announcement published
29 Sep 03	Bidders Conference
24 Oct 03	White Papers due at 4:00pm (EST)
07 Nov 03	White Paper Review completed
05 Dec 03	Proposals due at 4:00pm (EST)
23 Jan 04	Source selection completed, Contract negotiations
March 04	Kickoff meetings



Selection Criteria

Proposals will be evaluated based upon an assessment of the overall best value to the government based upon these criteria

- Potential of the concept for meeting the desired system attributes and performance parameters
- Demonstrated understanding of the critical technology challenges
- History of performance of the Team and Team members in developing related technologies and systems
- Cost realism (best cost to the government)

HSARPA may elect to fund follow on Phases as a product of this competition

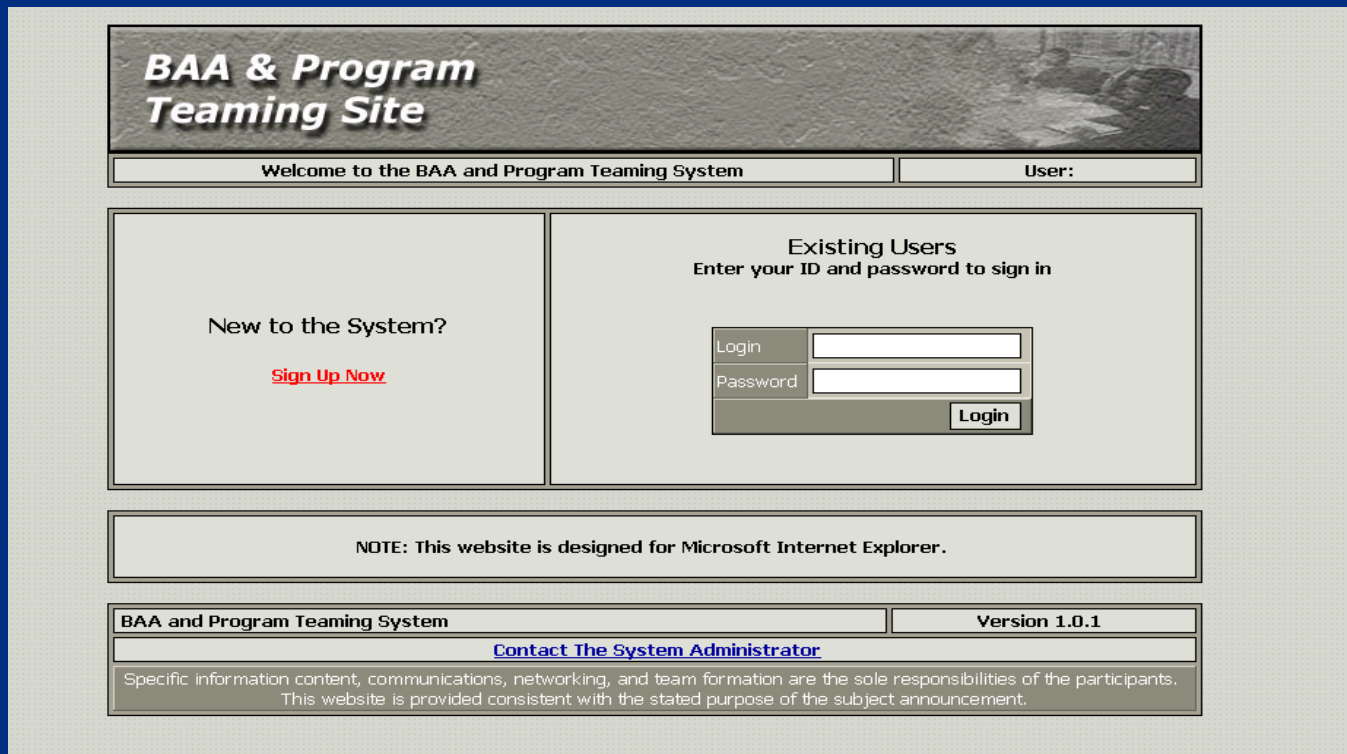


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Teaming Web Site

BAA and Program Teaming HSARPA RA-03-01 Website

Go to: <http://www.davincinetbook.com/teams/login.asp>



The screenshot shows a web browser window displaying the 'BAA & Program Teaming Site'. The page has a header with the site name and a banner image. Below the header is a navigation bar with 'Welcome to the BAA and Program Teaming System' and a 'User:' label. The main content area is divided into two sections. The left section, titled 'New to the System?', contains a red link 'Sign Up Now'. The right section, titled 'Existing Users', contains the instruction 'Enter your ID and password to sign in' and a login form with fields for 'Login' and 'Password', and a 'Login' button. Below the main content area is a note: 'NOTE: This website is designed for Microsoft Internet Explorer.' The footer contains the text 'BAA and Program Teaming System' and 'Version 1.0.1', a link 'Contact The System Administrator', and a disclaimer: 'Specific information content, communications, networking, and team formation are the sole responsibilities of the participants. This website is provided consistent with the stated purpose of the subject announcement.'

BAA & Program Teaming Site

Welcome to the BAA and Program Teaming System

User:

New to the System?

[Sign Up Now](#)

Existing Users
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BAA and Program Teaming System

Version 1.0.1

[Contact The System Administrator](#)

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BIDS

- The full Research Announcement 03-01 may be downloaded from the Technology Support Working Group (TSWG) Broad Agency Announcement Site (BIDS) at www.bids.tswg.gov
- HSARPA will use BIDS for submission of all unclassified White Papers and Proposals
- A full briefing on BIDS later today



Question Card Usage

- The blue card in your package to submit at the break, and may be answered during the Question and Answer period
- Green cards at the back tables for questions that will be answered in the Frequently Asked Questions (FAQ) that will be posted on-line
- Questions should be submitted to:
HSARPA.Queries_about_Solicitations@hq.dhs.gov



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